SEQUENCE LISTING

<110> Campochiaro, Peter A.

<120> OCULAR GENE THERAPY

<130> OP/4-32696P1

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 183
<212> PRT
<213> Human

<400> 1

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Ser Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
            20                  25                  30
Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg Ala
        35                  40                  45
Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
    50                  55                  60
Asp Arg Ala Ala Val Pro Ile Val Asn Leu Lys Asp Glu Leu Leu Phe
65                  70                  75                  80
Pro Ser Trp Glu Ala Leu Phe Ser Gly Ser Glu Gly Pro Leu Lys Pro
                85                  90                  95
Gly Ala Arg Ile Phe Ser Phe Asp Gly Lys Asp Val Leu Arg His Pro
            100                 105                 110
Thr Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Asn Gly Arg
        115                 120                 125
Arg Leu Thr Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Ala Pro Ser
    130                 135                 140
Ala Thr Gly Gln Ala Ser Ser Leu Leu Gly Gly Arg Leu Leu Gly Gln
145                 150                 155                 160
Ser Ala Ala Ser Cys His His Ala Tyr Ile Val Leu Cys Ile Glu Asn
                165                 170                 175
Ser Phe Met Thr Ala Ser Lys
            180
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<210> 2
<211> 551
<212> DNA
<213> Human

<400> 2

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cgggccgtgg     120
ggctggcggg caccttccgc gccttcctgt cctcgcgcct gcaggacctg
tacagcatcg     180
tgcgccgtgc cgaccgcgca gccgtgccca tcgtcaacct caaggacgag
ctgctgtttc     240
ccagctggga ggctctgttc tcaggctctg agggtccgct gaagcccggg
gcacgcatct     300
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tctcctttga cggcaaggac gtcctgaggc accccacctg gccccagaag
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atggctcgga ccccaacggg cgcaggctga ccgagagcta ctgtgagacg
tggcggacgg 420
aggctccctc ggccacgggc caggcctcct cgctgctggg gggcaggctc
ctggggcaga 480
gtgccgcgag ctgccatcac gcctacatcg tgctctgcat tgagaacagc
ttcatgactg 540
cctccaagta g
551

<210> 3
<211> 207
<212> PRT
<213> Mouse

<400> 3
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15
Gly Ser Thr Gly Asp Ala Ala His Thr His Gln Asp Phe Gln Pro Val
20 25 30
Leu His Leu Val Ala Leu Asn Thr Pro Leu Ser Gly Gly Met Arg Gly
35 40 45
Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala Val Gly
50 55 60
Leu Ser Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu
65 70 75 80
Tyr Ser Ile Val Arg Arg Ala Asp Arg Gly Ser Val Pro Ile Val Asn
85 90 95
Leu Lys Asp Glu Val Leu Ser Pro Ser Trp Asp Ser Leu Phe Ser Gly
100 105 110
Ser Gln Gly Gln Leu Gln Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly
115 120 125
Arg Asp Val Leu Arg His Pro Ala Trp Pro Gln Lys Ser Val Trp His
130 135 140
Gly Ser Asp Pro Ser Gly Arg Arg Leu Met Glu Ser Tyr Cys Glu Thr
145 150 155 160
Trp Arg Thr Glu Thr Thr Gly Ala Thr Gly Gln Ala Ser Ser Leu Leu
165 170 175
Ser Gly Arg Leu Leu Glu Gln Lys Ala Ala Ser Cys His Asn Ser Tyr
180 185 190
Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ser Phe Ser Lys
195 200 205

<210> 4
<211> 624
<212> DNA
<213> Mouse

<400> 4
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ttccactggt 60
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actgaacacc 120
cccctgtctg gaggcatgcg tggtatccgt ggagcagatt tccagtgctt
ccagcaagcc 180
cgagccgtgg ggctgtcggg caccttccgg gctttcctgt cctctaggct
gcaggatctc 240
tatagcatcg tgcgccgtgc tgaccggggg tctgtgccca tcgtcaacct
gaaggacgag 300

gtgctatctc ccagctggga ctccctgttt tctggctccc agggtcaagt
gcaacccggg 360
gcccgcatct tttcttttga cggcagagat gtcctgagac acccagcctg
gccgcagaag 420
agcgtatggc acggctcgga ccccagtggg cggaggctga tggagagtta
ctgtgagaca 480
tggcgaactg aaactactgg ggctacaggt caggcctcct ccctgctgtc
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624

<210> 5
<211> 8
<212> PRT
<213> Human

<400> 5
Ala Pro Gln Gln Glu Ala Leu Ala
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<210> 6
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 6
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<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 7
aagggctatc gatctagctg gcagaggcct at
32

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 8
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20

<210> 9
<211> 29
<212> DNA

<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 9
ctgatgagta tgggccgcgt caccagtgg
29

<210> 10
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 10
aagggctatc gatctagctg gcagaggcct at
32

<210> 11
<211> 35
<212> DNA
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<223> PCR Primer

<400> 11
gatctctaga ccaccatgca tactcatcag gactt
35

<210> 12
<211> 30
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<400> 12
actggagaaa gaggtttatc tagctactag
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<210> 13
<211> 18
<212> PRT
<213> Adenovirus

<400> 13
Met Arg Tyr Met Ile Leu Gly Leu Leu Ala Leu Ala Ala Val Cys Ser
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Ala Ala

<210> 14
<211> 96
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

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<210> 15
<211> 29
<212> DNA
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<220>
<223> PCR Primer

<400> 15
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<210> 16
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<212> DNA
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<220>
<223> PCR Primer

<400> 16
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<210> 17
<211> 23
<212> DNA
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<223> PCR Primer

<400> 17
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<210> 18
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<212> DNA
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<220>
<223> PCR Primer

<400> 18
cagatgacat cctggccag
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<210> 19
<211> 22
<212> DNA
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<220>
<223> PCR Primer

<400> 19
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<210> 20
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<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 20
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118

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<211> 123
<212> DNA
<213> Artificial Sequence

<220>
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<400> 21
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tgctgagggg 60
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atggaagctt 120
ggc
123